

BEARING DEVICE

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- **International:** *F16C9/04; F16C19/24; F16C33/58; F16C9/00; F16C19/22; F16C33/58; (IPC1-7): F16C9/04; F16C19/24; F16C33/58*

- **European:**

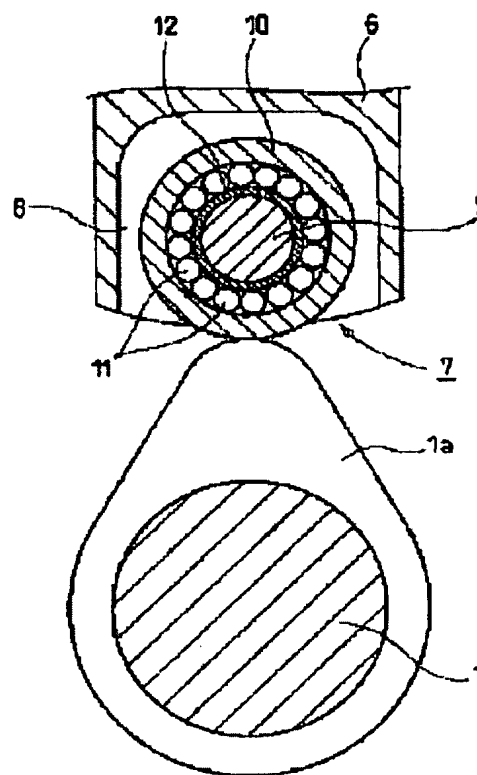
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Abstract of JP10103339

PROBLEM TO BE SOLVED: To improve wear resistance in an orbit region of the needle-form roller of a shaft and to provide stable operation for a long period. **SOLUTION:** In a bearing device 7 formed such that an outer ring element 10 is rotatably supported on a shaft 9, having two ends fixed at support parts 8, through a needle-form roller 11, the shaft 9 is formed of a metallic material having at least a needle-form roller orbit region on which curing treatment is applied, and a solid film 12 of a fluorine-contained polyurethane high molecular compound is formed on the outer peripheral surface of the shaft 9. The solid film 12 is a three-dimensional reticular structure wherein molecules are urethane-coupled together and dusting ability and lubricity are eminently more excellent compared with those of a conventional film.



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